Applicants: Philip O. Livingston and Friedhelm Helling

Serial No.: 08/196,154

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deleted material is in brackets and the inserted material is underlined is attached hereto as **Exhibit A**:

--78. (Amended) A composition which comprises:

> a conjugate of i) a ganglioside derivative which a) comprises an unaltered oligosaccharide part and an altered\ceramide portion comprising a sphingosine base, ii) Keyhole Limpet Hemocyanin or a derivative ` thereof comprising an  $\varepsilon$ -aminolysyl group;

> a saponin derivable from the bark of a Quillaja b) saponaria Molina tree; and

> a pharmaceutically acceptable carrier; C) the relative amounts of such conjugate and such saponin being effective to stimulate or enhance antibody production in a subject;

> wherein the ganglioside derivative is a derivative of a ganglioside selected from the group consisting of GM2, GM3, GD2, GD3, GD3 lactone, O-acetyl GD3 and GT3; and wherein in the conjugate the ganglidside derivative is conjugated to Keyhole Limpet Hemocyanin\or the derivative thereof through a C-4 carbon of the sphingosine base of the ceramide portion of the ganglioside derivative to the e-aminolysyl group of Keyhole Limpet Hemocyanin or the derivative thereof. --

(Amended) A method of stimulating or enhancing antibody production in a subject which comprises administering to the subject an effect ve amount of a composition which

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## comprises:

a) a conjugate of i) a ganglioside derivative which comprises an unaltered oligosaccharide part and an altered ceramide portion comprising a sphingosine base, to ii) Keyhole Limpet Hemocyanin or a derivative thereof comprising an ε-aminolysyl group;

b) a saponin derivable from the bark of a Quillaja saponaria Molina tree; and

c) a pharmaceutically acceptable carrier; the relative amounts of such conjugate and such saponin being effective to stimulate or enhance antibody production in the subject;

wherein the ganglioside derivative is a derivative of a ganglioside selected from the group consisting of GM2, GM3, GD2, GD3, GD3 lactone, O-acetyl GD3 and GT3; and wherein in the conjugate the ganglioside derivative is conjugated to Keyhole Limpet Hemocyanin or the derivative thereof through a C-4 carbon of the sphingosine base of the ceramide portion of the ganglioside derivative to the e-aminolysyl group of Keyhole Limpet Hemocyanin or the derivative thereof, so as to thereby stimulate or enhance antibody production in the subject.—

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(Amended) A method of [preventing or] treating a cancer in a subject which comprises administering to the subject an effective cancer [preventing or] treating amount of a composition which comprises:

a) a conjugate of i) a ganglioside derivative which comprises an unaltered oligosaccharide part and an

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altered ceramide portion comprising a sphingosine base\ to ii) Keyhole Limpet Hemocyanin or a derivative thereof comprising an ε-aminolysyl group;

- b) a saponin derivable from the bark of a Quillaja saponaria Molina tree; and
- a pharmaceut\cally acceptable carrier; C) the relative amount of such conjugate and such saponin being effective to\ stimulate or enhance antibody production in the subject;

wherein the ganglioside\derivative is a derivative of a ganglioside selected from the group consisting of GM2, GM3, GD2, GD3, GD3 lactone O-acetyl GD3 and GT3; and wherein in the conjugate the ganglioside derivative is conjugated to Keyhole Limpet Hemocyanin or the derivative thereof through a C-4 carbon of the sphingosine base of the ceramide portion of the gang Nioside derivative to the €-aminolysyl group of Keyhole Limpet Hemocyanin or the derivative thereof, so as to thereby [prevent or] treat a cancer in the subject. --

--96. (Amended) The method of claim 95, wherein the cancer is of epithelial origin.

> (Amended) The method of claim 95, wherein the cancer is of neuroectodermal origin. --

(Amended) The method of claim 93 or 95, wherein the -99. administering is exfected at two or more sites .--

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